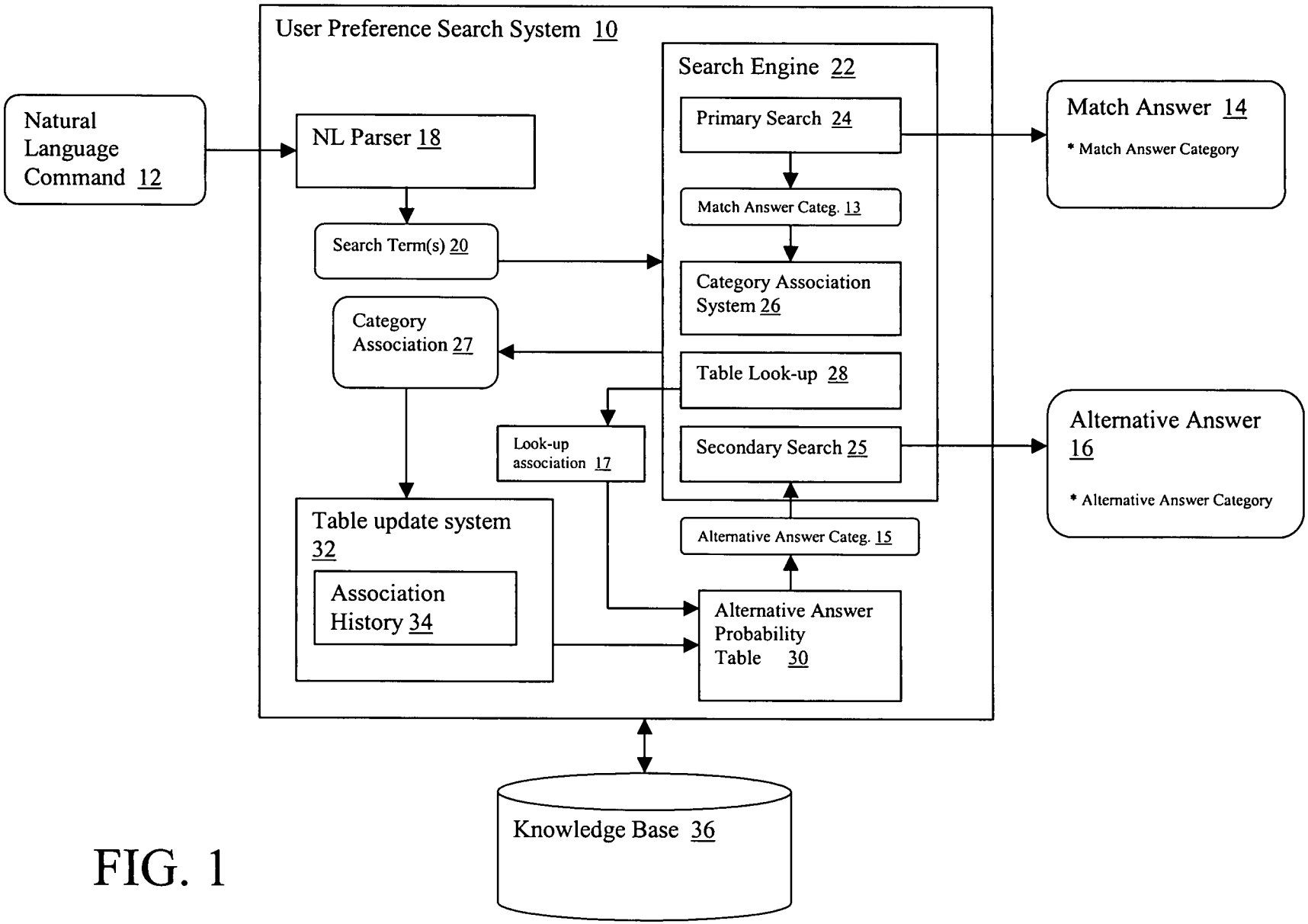
User Preference Search System 10
Natural Language Command 12
NL Parser 18
Search Term(s) 20
Category Association 27
Table update system 32
Association History 34
Search Engine 22
Primary Search 24
Match Answer Categ. 13
Category Association System 26
Table Look-up 28
Secondary Search 25
Look-up association 17
Alternative Answer Categ. 15
Alternative Answer Probability Table 30
Match Answer 14
* Match Answer Category
Alternative Answer 16
* Alternative Answer Category
Knowledge Base 36

FIG. 1

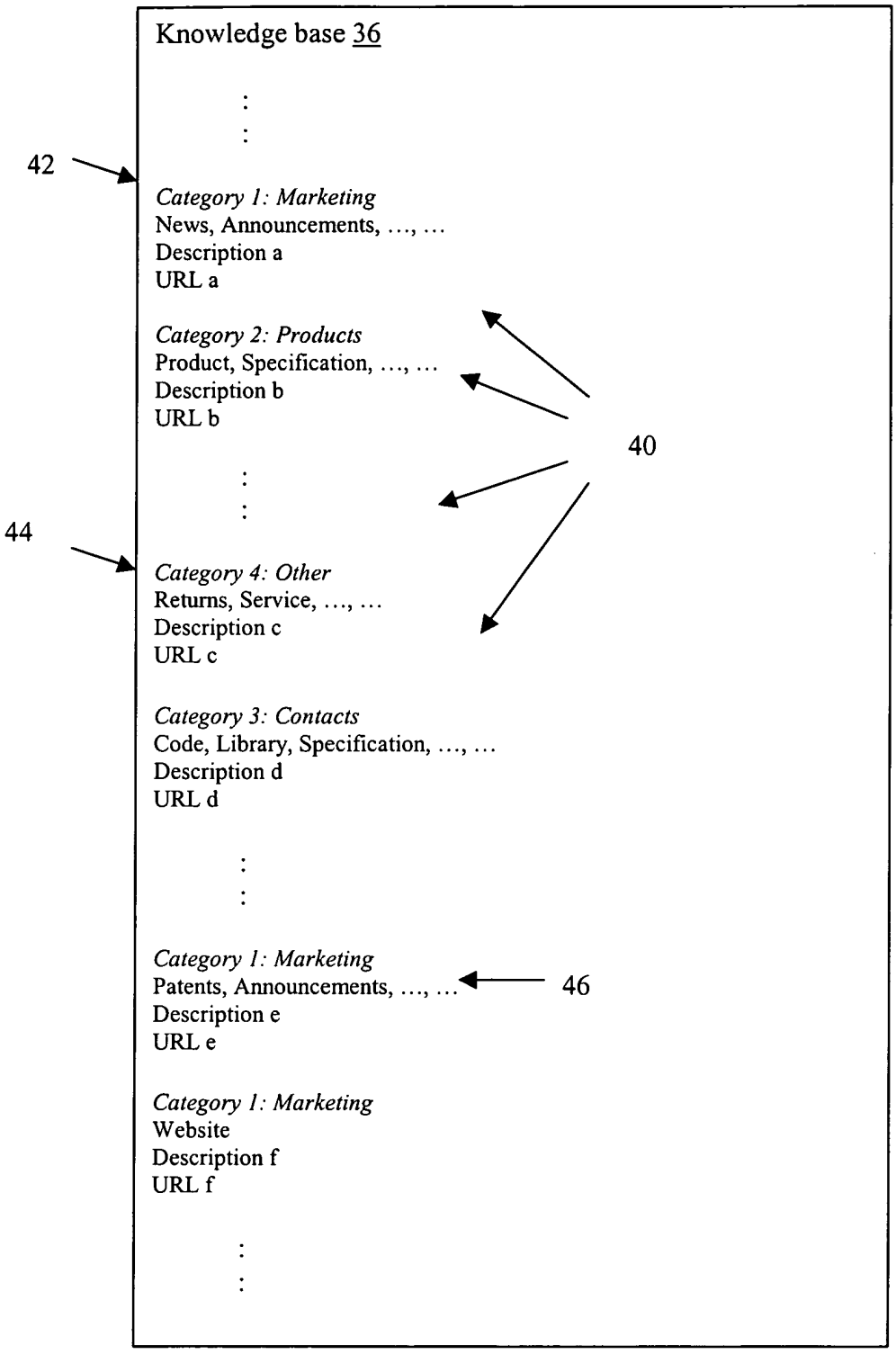
Knowledge base 36
42
Category 1: Marketing
News, Announcements, ..., ...
Description a
URL a
Category 2: Products
Product, Specification, ..., ...
Description b
URL b
40
44
Category 4: Other
Returns, Service, ..., ...
Description c
URL c
Category 3: Contacts
Code, Library, Specification, ..., ...
Description d
URL d
Category 1: Marketing
Patents, Announcements, ..., ...
46
Description e
URL e
Category 1: Marketing
Website
Description f
URL f

FIG. 2

Association / Sum	(1) Marketing	(2) Products	(3) Contacts	(4) Other
1-1 sum = 2	1		1	
1-2 sum = 1	1			
1-3 sum = 0				
1-4 sum = 3		2		1
2-1 sum = 0				
2-2 sum = 1		1		
2-3 sum = 0				
2-4 sum = 4			3	1
3-1 sum = 6	2	1		3
3-2 sum = 0				
3-3 sum = 1			1	
3-4 sum = 2		2		
4-1 sum = 0				
4-2 sum = 1			1	
4-3 sum = 2	2			
4-4 sum = 1			1	

FIG. 3

Association	(1) Marketing	(2) Products	(3) Contacts	(4) Other
1-1	1/2		1/2	
1-2	1/1			
1-3	.			
1-4		2/3		1/3
2-1				
2-2		1/1		
2-3				
2-4			3/4	1/4
3-1	2/6	1/6		3/6
3-2				
3-3			1/1	
3-4		2/2		
4-1				
4-2			2/2	
4-3	2/2			
4-4			1/1	

FIG. 4